

MED IN MEDICAL INNOVATIONS GMBH, 81254 MUNICH

5       Device for generating a continuous positive airway  
pressure (CPAP device)

PATENT CLAIMS

1.      Device for generating a continuous positive airway  
10     pressure (CPAP device), in particular a nasal CPAP  
device (nCPAP device), with:

15     a hollow body (10) in which an overpressure can be  
built up;

20     a first opening (20) provided in a first side wall  
of the hollow body (10) and used for introduction  
of a respiratory gas flow (A) directed into the  
hollow body (10) and for removal of the exhaled  
respiratory gas flow (B); and

25     an attachment piece (30) which can be fitted on  
the hollow body (10) in order to connect the  
hollow body (10) to a nosepiece and/or mouthpiece  
(100);

characterized by

30     a second opening (71) provided in a second side  
wall of the hollow body (10) and used for  
introduction of a medicament flow (M) directed  
into the hollow body (10).

35     2. Device according to Claim 1, characterized in that  
a spacer (40) is provided which can be fitted on  
the hollow body (10) and on which a flow nozzle  
(50) for directing the respiratory gas flow (A) to  
the first opening (20) can be arranged.

3. Device according to Claim 1 or 2, characterized in that the hollow body (10) basically has the shape of a hollow cylinder on whose one end surface (10a) the attachment piece (30) can be fitted and on whose circumferential surface the first and second openings (20; 71) are provided.
4. Device according to Claim 3, characterized in that the first and second openings (20; 71) lie at approximately the same height, so that the respiratory gas flow (A) directed into the hollow body (10) and the medicament flow (M) directed into the hollow body (10) at least partially intersect in an area (80).
5. Device according to one of the preceding claims, characterized in that a pipe (90) is inserted into the second opening (71) and protrudes into the inside of the hollow body (10).
6. Device according to Claim 5, characterized in that the pipe (90) protrudes so far into the inside of the hollow body (10) that it forms a break-up edge for the respiratory gas flow (A) directed into the hollow body (10).
7. Device according to Claim 5 or 6, characterized in that the pipe (90) can be plugged in.
8. Device according to one of the preceding claims, characterized in that the second opening (71) can be closed off by a closure means, preferably a lid or slide.
9. Device according to one of preceding Claims 3 to 8, characterized in that the first and second openings (20; 71) are arranged at an acute angle to one another on the circumferential surface.

10. Device according to one of preceding Claims 3 to  
9, characterized in that the attachment piece (30)  
consists of a stopper which can be at least  
partially inserted into the hollow body (10) at  
the end surface (10a).  
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11. Device according to one of the preceding claims,  
characterized in that the attachment piece (30)  
has one or two passages which correspond to  
10 corresponding respiratory gas passages of the  
nosepiece and/or mouthpiece (100).
12. Device according to Claim 11, characterized in  
that one or two outwardly pointing pipe stubs (35)  
15 for introduction into the nosepiece and/or  
mouthpiece (100) are provided in the passages of  
the attachment piece (30).
13. Device according to one of the preceding claims,  
20 characterized in that the attachment piece (30)  
can be turned relative to the hollow body (10)  
about at least one defined axis and has a closure  
means with which the second opening (71) can be  
closed by said turning.  
25
14. Device according to Claim 13, characterized in  
that the defined axis lies substantially  
perpendicular to the axis of the respiratory gas  
flow (A) and medicament flow (M) directed into the  
30 hollow body (10).
15. Device according to one of preceding Claims 2 to  
14, characterized in that the spacer (40) has a  
substantially annular or cup-shaped configuration.  
35
16. Device according to Claim 15, characterized in  
that the flow nozzle (50) is guided through a hole  
in the side wall of the annular shape or cup shape

and is oriented substantially perpendicular to the first opening (20).

- 5        17. Device according to Claim 16, characterized in that the flow nozzle (50) projects by a predetermined length into the inside of the annular shape or inside of the cup shape.
- 10      18. Device according to one of the preceding claims, characterized in that a third opening for attachment of a pressure gauge is provided in one side wall of the hollow body (10), preferably a side wall different than the side wall with the first opening (20).